

DESCRIPTIONS OF NEW AUSTRALIAN GEOMETRINA; &C.

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GEOMETRINA.

HYDRIOMENIADÆ.

HYDRIOMENA ACTINIPHA, n. sp.

Female, 24 mm. Head, palpi, antennæ, thorax, and legs fuscous-whitish thorax with a faint fuscous anterior band. Abdomen greyish-ochreous. Forewings elongate-triangular, termen waved, obliquely rounded; ochreous-whitish, markings fuscous, well defined, anterior edge of basal patch gently curved, and finely edged posteriorly by a narrow streak of whitish throughout, from one-fifth costa to one-fourth inner margin; a fine transverse line of fuscous in middle of patch; median band broad on upper half, finely edged on either side with streak of white, anterior edge from one-third costa to beyond one-third inner margin, strongly indented below middle and with a short projection below costa, posterior edge from beyond two-thirds of costa to two-thirds inner margin, with a strong acute projection in middle; ground color between basal patch and median band and subterminal line sometimes wholly pale ochreous; a black discal dot in middle of median band; subterminal waved, irregular, whitish, anteriorly edged with fuscous; a sharply defined oblique white streak from apex to subterminal below costa; a fine waved black line along termen; cilia whitish, barred with fuscous. Hindwings with termen waved; grey-whitish; median patch faintly indicated in fuscous; subterminal and line along termen as in forewings; cilia as in forewings.

Nearest *cryeropa*, Meyr.

Broken Hill, New South Wales; two specimens, in March.

STERRHIDÆ.

EOIS STENOZONA, n. sp.

Female, 24 mm. Head, palpi, antennæ, and thorax whitish, face blackish, collar light ferruginous. Legs ochreous-whitish. Abdomen grey-whitish. Forewings elongate-trian-

gular, termen oblique, nearly straight; whitish, minutely irrorated with fuscous; all lines except subterminal absent; subterminal strongly waved throughout, black, from costa at five-sixths to inner margin before anal angle, somewhat curved inwards above middle; a row of small fuscous dots along termen; cilia whitish. Hindwings with termen rounded; color, line, dots along termen, and cilia as in forewings; a faint fuscous discal dot.

Recognised by the absence of anterior lines.

Broken Hill, New South Wales; one specimen, in September.

EOIS OENOPUS, n. sp.

Male and female, 12-14 mm. Head, palpi, antennæ, thorax, and abdomen dull whitish-ochreous tinged with greenish, face fuscous, antennal ciliations nearly $1\frac{1}{2}$. Legs whitish-ochreous, posterior tibia in male with tuft of long purplish and whitish hairs. Forewings elongate-triangular, termen obliquely rounded; pale ochreous-whitish, somewhat greenish tinged; lines pale fuscous, waved; first nearly straight; median thicker, somewhat angulated above middle; second nearly straight, subterminal and submarginal obscure; a fine black discal dot above middle resting on posterior edge of median line; cilia ochreous-white. Hindwings with termen rounded; 6 and 7 stalked; color and markings as in forewings, but discal dot placed midway between first and median lines.

A distinct species, the male being recognised by the purplish tuft of hairs of hind tibiæ.

Cooktown, Queensland; four specimens in November.

EOIS POLYGRAMMA, n. sp.

Female, 12 mm. Head, antennæ, thorax, and abdomen white, face and palpi fuscous. Legs fuscous, posterior pair whitish. Forewings elongate-triangular, termen not waved, obliquely rounded; white, with ochreous markings; a narrow streak along costa from close to base to apex; lines strongly waved, well defined; first indented below middle; a fine black discal dot above middle just anterior to median line; median, second, and subterminal, similar and equidistant, and with faint double projection in middle; submarginal narrow; an interrupted fuscous line along termen; cilia greyish-ochreous. Hindwings with termen hardly rounded; 6 and 7 stalked; absent; line along termen and cilia as in forewings. Underside color, lines, and discal dot as in forewings, but first line of all wings pearly-white without markings.

A neatly marked species; a peculiarity is the absence of all markings of underside of wings.

Cooktown, Queensland; one specimen, in November.

LEPTOMERIS TETRASTICHA, n. sp.

Male, 24 mm. Head, antennæ, thorax, and abdomen dull whitish, antennal ciliations 1. Palpi dark fuscous. Legs whitish (posterior pair broken). Forewings elongate-triangular, termen obliquely rounded, hardly waved; white; lines slender, fuscous; first and median faintly developed; a fuscous discal dot in middle; second, subterminal, and submarginal strongly waved, dot-like, parallel and equidistant; a row of black dots along termen; cilia fuscous, with a paler line at base. Hindwings with termen rounded; 6 and 7 stalked; color, lines, discal dot and dots along termen as in forewings; cilia as in forewings.

A curious species, characterised by the arrangement of the three posterior lines.

Derby, Western Australia; one specimen, in November.

PYLARGE EREBOSPILA, n. sp.

Male, 20 mm. Head, palpi, antennæ, thorax, and legs dull ochreous, palpi long, infuscated on sides. Abdomen dull whitish. Forewings elongate-triangular, termen faintly waved, somewhat prominent in middle; dull ochreous; all lines obsolete; costa with irregularly scattered fuscous dots on posterior two-thirds; markings fuscous; a spot in disc at one-third from base; a second, larger, in middle of wings; indications of a transverse row of small dots, indicating submarginal line; two spots before termen on upper portion of wing; a row of small spots along termen; cilia dull ochreous, paler at base. Hindwings with termen as in forewings; 6 and 7 from a point; color, first discal dot and submarginal dots as in forewings, but the latter more pronounced, especially on lower half; dots along termen and cilia as in forewings.

A peculiar-looking insect not unlike some species of *Noctuidina*.

Cooktown, Queensland; one specimen, in November.

SELIDOSEMIDÆ.

SMYRIODES APHRONESA, n. sp.

Male and female, 38-42 mm. Head, palpi, antennæ, and thorax ashy-grey, antennal pectinations 4. Legs ashy-grey, posterior pair grey-whitish. Abdomen greyish. Forewings

elongate-triangular, costa gently arched, termen obliquely rounded, somewhat waved; cinereous-fuscous mixed with whitish posteriorly; lines blackish; first from one-fourth costa to one-fourth inner margin, angulated above and below middle; second from four-fifths costa to three-fourths inner margin, with a long fine projection outwards and a faint angulation immediately above inner margin; median shade rather narrow, distinct, blackish, similar in shape to previous line, subterminal nearly straight, whitish, obscure; all veins more or less outlined with blackish, more pronounced towards termen; 2 short blackish streaks before termen above middle and two similar below; a fine black line along termen; cilia cinereous-fuscous, with black points at extremities of veins. Hindwings with termen waved on upper half, more strongly in male; whitish, irrorated with fine blackish scales; a moderately broad blackish band along termen, narrowed towards anal angle; a fuscous discal dot; a black line along termen; cilia whitish, with blackish points at extremities of veins.

Nearest *heterochaës*, Lower, but differs by the differently shaped lines and especially the shorter antennal pectinations. The male has the lines more obscure.

Birchip, Victoria; one specimen, in April.

TORTRICINA.

CACÆCIA OPHIODESMA, n. sp.

Male, 30 mm. Head and thorax dark ochreous. Palpi, antennæ and legs ochreous, palpi long, fuscous-tinged above. Antennæ strongly ciliated. Abdomen greyish. Forewings elongate, moderate, costa moderately arched on basal half, termen nearly straight, slightly oblique, costal fold inconspicuous; pale ochreous, with fuscous markings; a small spot on fold at one-sixth from base; a thick, strongly outwardly oblique fuscous fascia, from costa before middle to inner margin at two-thirds, indented in middle on anterior edge, and with an evenly curved sinuation on upper half posteriorly; a moderate cuneiform spot on costa at about five-sixths; some scattered dots towards termen; cilia pale ochreous. Hindwings with termen faintly sinuate beneath apex; 6 and 7 stalked; pale ochreous, greyish towards base, spotted with pale fuscous, more pronounced beneath; cilia pale ochreous.

Not near any other described Australian species; the stalking of veins 6 and 7 and inconspicuous fold of forewings are specific only.

Sheffield, Tasmania; one specimen, in November. (Coll. Lyell.)

DICHELIA DIPHTHEROIDES, n. sp.

Male, 12 mm. Head and thorax reddish-ochreous. Palpi and antennæ greyish-ochreous. Abdomen blackish above, whitish beneath. Legs whitish-ochreous, posterior and middle pair infuscated. Forewings elongate, moderate, costa gently arched on basal half, termen nearly straight, oblique; reddish-ochreous, crossed by numerous irregular narrow transverse fuscous lines, most prominent on posterior half, one from just before middle of costa to beyond middle of inner margin, and another similar from just before three-fourths of costa to anal angle, both streaky gently curved outwards; a narrow fuscous streak from apex to termen towards anal angle; costa shortly spotted throughout with fuscous, from which spots most of the streaks commence; cilia reddish-ochreous, basal half fuscous. Hindwings fuscous, indistinctly spotted with darker; cilia light fuscous.

Birchip, Victorira; one specimen, in April.

TORTRIX ASTHENOPIS, n. sp.

Male, 16 mm. Head, palpi, thorax, and antennæ dull fuscous-reddish. Abdomen dark fuscous, anal tuft ochreous. Legs fuscous-whitish, posterior pair whitish, coxæ infuscated. Forewings elongate, moderate, costa rather strongly arched, termen hardly rounded, oblique; dull reddish-fuscous; costal edge narrowly fuscous throughout; a moderate dull white supra-median streak, dilated on posterior half, from base to apex, edged obscurely above throughout with a narrow streak of fuscous, and edged below from middle to posterior extremity by a similar streak, thickest on posterior half; a moderate thick irregular dull whitish longitudinal streak from base in middle to anal angle, slightly curved up in middle and edged above throughout with a moderate dull fuscous streak, thickest on posterior half; cilia dull reddish-fuscous, with a pale basal line. Hindwings pale fuscous-whitish, very faintly spotted with darker; cilia greyish, with a darker subbasal line.

In the neighborhood of *aulacana*, Meyr.

Melbourne, Victoria; one specimen.

TORTRIX PAUROZONA, n. sp.

Male, 16 mm. Head and palpi ochreous-white, post orbital rims fuscous, palpi fuscous at apex of second joint. Thorax fuscous, patâgia ochreous-white. Abdomen fuscous, ochreous-whitish beneath. Legs ochreous-whitish, fuscous tinged. Forewings elongate, moderate, costa hardly arched, termen nearly straight, oblique; deep brownish-ochreous, with

ochreous-whitish markings; a moderately short inwardly oblique narrow transverse subcostal fascia, not reaching either margin, indicating outer edge of basal patch; two parallel, oblique narrow fasciæ, from inner margin before and beyond middle, reaching two-thirds across wing; a short fascia from apex of second streak to inner margin at three-fourths; a similar fascia from just beneath costa before apex to termen above anal angle; 3 or 4 spots on costa between one-third and apex; a small spot on termen below apex; cilia fuscous, mixed with ochreous-white. Hindwings dark fuscous, strigulated and spotted with yellowish, and with a streak of yellow above anal angle; cilia ochreous, with a dark fuscous basal line.

A peculiarly marked species, which I at first regarded as an extreme variety of *subfurcatana*, Walk., but the different arrangement and direction of markings of forewings and color of hindwings separate it. The markings of *both* wings are reproduced on underside.

Blackwood, South Australia; one specimen, in November.

LEPTARTHRA, n. g.

Head smooth, palpi small, porrected, second joint rather rough scaled, terminal joint short. Antennæ biserrate, very shortly ciliated. Forewings moderate, costa in male simple, costa gently arched, termen faintly sinuate beneath apex; vein 1 furcate towards base; 7 and 8 rarely stalked; 3 from angle. Hindwings with 3 and 4 connate; 5 widely remote, parallel to 4; 6 and 7 separate.

Somewhat allied to *Byrsoptera*, Lower, but differs by the smooth thorax, absence of secondary cell, and costa of hindwings.

The stalking of veins 7 and 8 of forewings is a curious form of variation; it is noticeable in one specimen only.

LEPTARTHRA AULACODES, n. sp.

Male, 12-14 mm. Head and palpi ochreous. Antennæ and thorax fuscous, patagia light fuscous. Abdomen dark fuscous. Legs whitish-ochreous, posterior tibiæ infuscated, tarsi ringed with fuscous. Forewings elongate, moderate, costa gently arched, termen rounded, oblique, faintly sinuate beneath apex; deep reddish-ferruginous, mixed with blackish; basal area mixed with some bluish-metallic scales; two pairs of transverse, somewhat waved, outwards curved bluish-metallic fasciæ; first from before middle, second beyond middle, each pair becoming confluent on inner margin, interspaces between fasciæ filled in with dark fuscous; ante-

rior pair edged anteriorly throughout with dark fuscous; a bluish-metallic fascia, furcate on costa, from costa before apex, thence curved around before termen, and meeting previous fascia above inner margin; costa spotted with ochreous; costal portion of metallic markings ochreous; veins towards termen outlined with black; a fine black line along termen; cilia fuscous. Hindwings dark bronzy-fuscous; cilia ochreous, basal half dark fuscous.

Derby, Western Australia; two specimens, in September.

DIPTERINA GNOPHODRYAS, n. sp.

Male, 16 mm. Head, thorax, palpi, antennæ, and abdomen dark fuscous. Legs fuscous, posterior pair ochreous. Forewings elongate, moderate, costa gently arched, termen nearly straight, oblique; dull ochreous-whitish; costa spotted with fuscous throughout; two spots at three-fourths more distinct; basal patch fuscous mixed with some yellowish-ferruginous scales; outer edge limited by a blackish line, from one-fifth costa to one-fifth inner margin, strongly curved outwardly, and with a rounded projection in middle; median fascia narrow, fuscous, from costa at about two-thirds to inner margin before middle, lower half much attenuated and becoming yellowish-ferruginous; two or three narrow, transverse yellowish-ferruginous streaks between basal patch and fascia, not reaching costa, one sometimes connected with outer edge of basal patch in middle and becoming fuscous; two or three irregular transverse yellowish-ferruginous streaks be- dull fuscous, obscure somewhat quadrate spot at anal angle; an irregular triangular fuscous patch just before middle of termen, containing some blackish spots on edges; some scattered blackish spots along termen; cilia ochreous-grey, base fuscous. Hindwings light fuscous, obscurely spotted with darker; cilia light fuscous, with a darker subbasal line.

Hobart, Tasmania; one specimen, in November.

